

ABSTRACT

5

This invention relates to a process to polymerize olefin(s) comprising combining a solution, slurry or solid comprising one or more bulky ligand metallocene catalyst compounds, an optional support, and or one or more activator(s) with a solution comprising one or more phenoxide catalyst compounds, and thereafter, introducing one or more olefin(s) and the combination into a polymerization reactor. This invention also relates to a polymer of ethylene wherein the polymer has a density of 0.910 to 0.930 g/cc, a melt index of 0.3 to 2.0 dg/min, and a 15 to 35 μm thick film of the polymer has a 45° gloss of 60 or more, a haze of 7% or less, and a dart impact of 600 g or more.

0 1 2 3 4 5 6 7 8 9